

What is claimed is:

1. A TDMA-TDD based transmission/reception apparatus comprising:

5 detector for detecting propagation conditions for a plurality of base stations which receive an dedicated traffic channel signal;

10 selector for selecting the base station with an optimal propagation condition from among the plurality of base stations as the transmission destination of the dedicated traffic channel signal; and

15 transmitter for transmitting the dedicated traffic channel signal only to the base station selected by said selector.

20 2. The TDMA-TDD based transmission/reception apparatus according to claim 1, wherein the detector detects propagation conditions using the transmission level of common control channel signals by a plurality of base stations and the reception level of common control channel signals transmitted by the plurality of base stations.

25 3. The TDMA-TDD based transmission/reception apparatus according to claim 1, wherein the detector detects propagation conditions using the transmission level of dedicated traffic channel signals from a plurality of base stations and the reception level of dedicated

traffic channel signals transmitted by the plurality of base stations.

4. The TDMA-TDD based transmission/reception apparatus according to claim 1, wherein the transmitter transmits an dedicated traffic channel signal with a transmit power value set with an open loop using the propagation condition from each base station to the base station selected by the selector.

5. A communication terminal apparatus equipped with a TDMA-TDD based transmission/reception apparatus, said TDMA-TDD based transmission/reception apparatus comprising:

detector for detecting propagation conditions for a plurality of base stations which receive an dedicated traffic channel signal;

selector for selecting the base station with an optimal propagation condition from among the plurality of base stations as the transmission destination of the dedicated traffic channel signal; and

transmitter for transmitting the dedicated traffic channel signal only to the base station selected by said selector.

6. A base station that carries out a radio communication with a communication terminal apparatus equipped with a TDMA-TDD based transmission/reception apparatus, said

TDMA-TDD based transmission/reception apparatus
comprising:

detector for detecting propagation conditions for
a plurality of base stations which receive an dedicated
5 traffic channel signal;

selector for selecting the base station with an
optimal propagation condition from among the plurality
of base stations as the transmission destination of the
dedicated traffic channel signal; and

10 transmitter for transmitting the dedicated traffic
channel signal only to the base station selected by said
selector.

7. A TDMA-TDD based transmission/reception method
15 comprising:

detecting step of detecting propagation conditions
for a plurality of base stations which receive an
dedicated traffic channel signal;

selecting step of selecting the base station with
20 an optimal propagation condition from among the
plurality of base stations as the transmission
destination of the dedicated traffic channel signal; and

transmitting step of transmitting the dedicated
traffic channel signal only to the base station selected
25 by said selecting step.